

OCT 23 2006

Application No.: 10/806,256Docket No.: 4468-012BAmendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-3 (canceled)

4. (currently amended): A reception data synchronizing apparatus for a synchronization to be obtained between reception data having a plurality of synchronism patterns~~pattern for a synchronism to be obtained~~ and expectation data as an expected value of the reception data, comprising:

a phase difference recording means for recording a time difference between a second synchronism pattern detecting timing at which the synchronism pattern is detected in the reception data and ~~the a first~~ synchronism pattern detecting timing, as an initial one at which the synchronism pattern is initially detected in the reception data;

a timing generating means for generating a timing for decision; and

a collation and synchronism decision means for collating the reception data with the expectation data ~~reference data~~ to decide whether or not the reception data is consistent in phase with the ~~reference data; and~~ expectation data according to the timing for decision.

wherein the timing for decision is the first synchronism pattern detecting timing before the collation and synchronism decision means collates the reception data with the expectation data.

and wherein the timing for decision is a timing obtained by shifting the first synchronism pattern detecting timing by the time difference recorded in the phase difference recording means, when the collation and synchronism decision means gives a decision for inconsistency in phase, a timing generating means operative, when the collation and synchronism decision means gives a decision for inconsistency in phase, for shifting a synchronism timing of the expectation data from the synchronism pattern detecting timing, as the initial one, by the time difference recorded in the synchronism pattern detecting timing recording means.

Application No.: 10/806,256Docket No.: 4468-012B

5. (currently amended): A reception data synchronizing apparatus for a synchronization to be obtained between reception data having a plurality of synchronism patterns~~pattern for a synchronism to be obtained~~ and expectation data as an expected value of the reception data, comprising:

a phase difference recording means for recording a time difference between a current synchronism pattern detecting timing at which the synchronism pattern is detected in the reception data and ~~[[the]]~~ a previous synchronism pattern detecting timing, as a previous one at which the synchronism pattern is detected in a previous time in the reception data;

a collation and synchronism decision means for collating the reception data with reference data to decide whether or not the reception data is consistent in phase with the ~~reference data~~ expectation data according to the previous synchronism pattern detecting timing; and

a timing generating means operative, when the collation and synchronism decision means gives a decision for inconsistency in phase, for shifting ~~a synchronism timing of the expectation data~~ the previous synchronism pattern detecting timing by the time difference recorded in the ~~synchronism pattern detecting timing~~ phase difference recording means.

6-8 (canceled).

9. (currently amended): A reception data synchronizing method for a synchronization to be obtained between reception data having a plurality of synchronism patterns~~pattern for a synchronism to be obtained~~ and expectation data as an expected value of the reception data, comprising:

a phase difference recording step for recording a time difference between a second synchronism pattern detecting timing at which the synchronism pattern is detected in the reception data and ~~[[the]]~~ a first synchronism pattern detecting timing, as an initial one at which the synchronism pattern is initially detected in the reception data;

a timing generating step for generating a timing for decision; and

a collation and synchronism decision step for collating the reception data with ~~reference~~ the expectation data to decide whether or not the reception data is consistent in phase with the

Application No.: 10/806,256Docket No.: 4468-012B

~~reference data and; the expectation data according to the timing for decision.~~

~~wherein the timing for decision is the first synchronism pattern detecting timing before the collation and synchronism decision step collates the reception data with the expectation data.~~

~~and wherein the timing for decision is the first synchronism pattern detecting timing before the collation and synchronism decision step collates the reception data with the expectation data.~~

~~and wherein the timing for decision is a timing obtained by shifting the first synchronism pattern detecting timing by the time difference recorded in the phase difference recording step, when the collation and synchronism decision step gives a decision for inconsistency in phase.~~

~~a timing generating step operative, when the collation and synchronism decision step gives a decision for inconsistency in phase, for shifting a synchronism timing of the expectation data from the synchronism pattern detecting timing, as the initial one, by the time difference recorded in the synchronism pattern detecting timing recording step.~~

10. (original): A reception data synchronizing method for a synchronization to be obtained between reception data having a plurality of synchronism patterns~~synchronism pattern~~ for a ~~synchronism to be obtained~~ and expectation data as an expected value of the reception data, comprising:

a phase difference recording step for recording a time difference between a current synchronism pattern detecting timing at which the synchronism pattern is detected in the reception data and ~~the~~ previous synchronism pattern detecting timing, as a previous one at which the synchronism pattern is detected in a previous time in the reception data;

a collation and synchronism decision step for collating the reception data with the expectation data ~~reference data~~ to decide whether or not the reception data is consistent in phase with the ~~reference~~ expectation data according to the previous synchronism pattern detecting timing; and

a timing generating step operative, when the collation and synchronism decision step gives a decision for inconsistency in phase, for shifting ~~a synchronism timing of the expectation data~~ the previous synchronism pattern detecting timing by the time difference recorded in the ~~synchronism pattern detecting timing~~ phase difference recording step.

Application No.: 10/806,256

Docket No.: 4468-012B

11-13 (canceled).

14. (currently amended): A computer-readable medium embodying a program of instructions for execution by the computer to perform a reception data synchronizing method for a synchronization to be obtained between reception data having a plurality of synchronism patterns ~~synchronism pattern for a synchronism to be obtained~~ and expectation data as an expected value of the reception data, comprising:

a phase difference recording step for recording a time difference between a second synchronism pattern detecting timing at which the synchronism pattern is detected in the reception data and ~~the a first~~ a first synchronism pattern detecting timing, as an initial one at which the synchronism pattern is initially detected in the reception data;

a timing generating step for generating a timing for decision; and

a collation and synchronism decision step for collating the reception data with ~~reference~~ the expectation data to decide whether or not the reception data is consistent in phase with the ~~reference data; and~~ expectation data according to the timing for decision.

wherein the timing for decision is the first synchronism pattern detecting timing before the collation and synchronism decision step collates the reception data with the expectation data.

and wherein the timing for decision is a timing obtained by shifting the first synchronism pattern detecting timing by the time difference recorded in the phase difference recording step, when the collation and synchronism decision step give a decision for inconsistency in phase.

~~a timing generating step operative, when the collation and synchronism decision step gives a decision for inconsistency in phase, for shifting a synchronism timing of the expectation data from the synchronism pattern detecting timing, as the initial one, by the time difference recorded in the synchronism pattern detecting timing recording step.~~

15. (original): A computer-readable medium embodying a program of instructions for execution by the computer to perform a reception data synchronizing method for a

Application No.: 10/806,256Docket No.: 4468-012B

synchronization to be obtained between reception data having a plurality of synchronism patterns ~~synchronism pattern for a synchronism to be obtained~~ and expectation data as an expected value of the reception data, comprising:

a phase difference recording step for recording a time difference between a current synchronism pattern detecting timing at which the synchronism pattern is detected in the reception data and ~~the~~ a previous synchronism pattern detecting timing, as a previous one at which the synchronism pattern is detected in a previous time in the reception data;

a collation and synchronism decision step for collating the reception data with ~~reference~~ the expectation data to decide whether or not the reception data is consistent in phase with the ~~reference data;~~ expectation data according to the previous synchronism pattern detecting timing; and

a timing generating step operative, when the collation and synchronism decision step gives a decision for inconsistency in phase, for shifting ~~a synchronism timing of the expectation data~~ the previous synchronism pattern detecting timing by the time difference recorded in the ~~synchronism pattern detecting timing phase difference~~ recording step.

16-18 (canceled).

19 (currently amended): A reception data synchronizing apparatus for a synchronization to be obtained between reception data having a plurality of synchronism patterns ~~synchronism pattern for a synchronism to be obtained~~ and expectation data as an expected value of the reception data, comprising:

a phase difference recording device that records a time difference between a second synchronism pattern detecting timing at which the synchronism pattern is detected in the reception data and ~~the~~ a first synchronism pattern detecting timing, as an initial one at which the synchronism pattern is initially detected in the reception data;

a timing generating device for generating a timing for decision; and

a collation and synchronism decision device that collates the reception data with ~~reference~~ the expectation data to decide whether or not the reception data is consistent in phase with the ~~reference data and;~~ expectation data according to the timing for decision.

Application No.: 10/806,256Docket No.: 4468-012B

wherein the timing for decision is the first synchronism pattern detecting timing before the collation and synchronism decision device collates the reception data with the expectation data,

and wherein the timing for decision is a timing obtained by shifting the first synchronism pattern detecting timing by the time difference recorded in the phase difference recording device, when the collation and synchronism decision device gives a decision for inconsistency in phase.

~~a timing generating device operative, when the collation and synchronism decision device gives a decision for inconsistency in phase, for shifting a synchronism timing of the expectation data from the synchronism pattern detecting timing, as the initial one, by the time difference recorded in the synchronism pattern detecting timing recording device.~~

20 (currently amended): A reception data synchronizing apparatus for a synchronization to be obtained between reception data having a plurality of synchronism patterns ~~synchronism pattern for a synchronism to be obtained~~ and expectation data as an expected value of the reception data, comprising:

a phase difference recording device that records a time difference between a current synchronism pattern detecting timing at which the synchronism pattern is detected in the reception data and ~~thea~~ previous synchronism pattern detecting timing, as a previous one at which the synchronism pattern is detected in a previous time in the reception data;

a collation and synchronism decision device ~~that collates~~ for collating the reception data with ~~reference~~ the expectation data to decide whether or not the reception data is consistent in phase with the ~~reference data~~ expectation data according to the previous synchronism pattern detecting timing; and

a timing generating device operative, when the collation and synchronism decision device gives a decision for inconsistency in phase, for shifting ~~a synchronism timing of the expectation data~~ the previous synchronism pattern detecting timing by the time difference recorded in the ~~synchronism pattern detecting timing~~ phase difference recording device.